



Table 1: STS Tags and Exemplary Primer Pairs

Gene	STS name	STS acc #		SEQ ID NO:	Map Position
Glucokinase regulator (GCKR)	SHGC 35430	G 29810	Forward Primer: AACCCATGTTCTGGGTGG Reverse Primer: CGGTGAGAGTAGAAACCACCTAGG	1 2	2p23
Interleukin receptor, type II precursor	WI 11083	G22557	Forward Primer: TTTCATTTATTTCACTTGGGATAGG Reverse Primer: CTTGGTTTGGGGGAATAT	3 4	2q12
Interleukin1 receptor, type I precursor	SHGC 35324	G28576	Forward Primer: GCCAAGAGTCTTTAGGTGCC Reverse Primer: TTTTAAAGATCTTCCCAAGCC	5 6	2q12
Human insulin-like growth factor binding protein-5 (IGFBP5)	SHGC 11498	G14572	Forward Primer: GAATTAATGAGGGCTGAACG Reverse Primer: CATGTGCATATTTCATTCCCC	7 8	2q33-q36
Protein phosphatase 1, catalytic subunit, beta isoform (PPP1CB)	WI 7312	G06545	Forward Primer: ATGTGATTATGTGGTACCCTTGGC Reverse Primer: AATCGTATACAACAATTCACATGGC	9 10	2q22-q23
Human protein tyrosine phosphatase	WI 9369	G07262	Forward Primer: TGGACATTTTCATACCCTGTGCA Reverse Primer: ACCTACCCTGAGGTCCGCT	11 12	10q25
Hexokinase-1 (HK1)	SHGC 11749	G14649	Forward Primer: TTTCCTTTATTTGGAAAAGTCAGC Reverse Primer: TGCTAACCCCGTCTGCTC	13 14	10q22
Arachidonate 5-lipoxygenase (ALOX5)	WI 9162	G07156	Forward Primer: TTCCATTTATTTCTTGATCTTCAGG Reverse Primer: GCTGGGTGTGACAGGAC	15 16	10q11.2

9.	Protein tyrosine phosphatase 2C	SHGC 30316	G27080	Forward Primer: CTAGAAGACAGCAGTGACACTTCC Reverse Primer: TGGGGTAGTTGGCTGCC	17 18	12q24.21
10.	Placental protein II precursor	SHGC 9798	G11327	Forward Primer: GGAGAGGACTGGAAGGGATC Reverse Primer: TGCCAAAATTCTAGAGGATAAAGG	19 20	12q13.1
11.	Insulin like growth factor I (somato-medn C) (IGF1)	WI 7033	G06363	Forward Primer: ACAGGAGGATTAAACAGACAGAGG Reverse Primer: TTATTTAATTGTGTTTAGAGGGCA	21 22	12q22-q23
12.	Human protein tyrosine kinase	WI 9296	G07226	Forward Primer: TGCTGCATAAATCACCATTATCGG Reverse Primer: GAACACAAATTTCTGAAAGGTGC	23 24	12q12
13.	Glycogen synthase (human liver)	WI 7963	G06781	Forward Primer: CATGTGCTGCATGAAGAGCT Reverse Primer: AAGCTGCATAAATAGTAAGCAAAGG	25 26	12p12.2
14.	Protein tyrosine phosphatase	SHGC 31640	G27089	Forward Primer: TAATCAAAATTACCCACCCCAAGG Reverse Primer: GCCTTAGGCTGTGTGATAAACC	27 28	12q15
15.	Mannose receptor (M6PR)	WI 7191	G06444	Forward Primer: ATAATTGCTTGTTTTCTAGCCTGG Reverse Primer: TAA TTGGAGTGGAATAA AAAACTGG	29 30	10p13
16.	Glutathione S-transferase, microsomal	WI 7728	G06674	Forward Primer: ACAACTCAACATCCAGTTGGC Reverse Primer: TTCATGTCTGTTTCAGCAGTATTG	31 32	12p12.3-p12.1
17.	Glucose transporter type 3, brain	SHGC 31620	G27088	Forward Primer: CAGGATGAACCCAGGACG Reverse Primer: GGCAAAAGTTGTCATGTGCC	33 34	12p13.3
18.	Protein phosphatase 4 (formerly x) catalytic subunit (PPP4C)	WI 9235	G07192	Forward Primer: TTCCTCAGACGGAGGCTG Reverse Primer: GGAACATGGAGCTAGGTCTCC	35 36	16p12-16p11

19.	Low density lipoprotein receptor precursor	SHGC 15376	G15092	Forward Primer: GTTTAAAAAGTGACACCCATCTCC Reverse Primer: TGCCCTCTGAAATGCCTCTTC	37 38	19p13.3
20.	Lecithin cholesterol acyltransferase	WI 10276	G11801	Forward Primer: TTATTGGTGGTGTCGTGATGAGC Reverse Primer: GGCTTCATCTCTCTTGGGG	39 40	16q22.1
21.	Interleukin 4 receptor (IL4R)	WI 9023	G07084	Forward Primer: AAAACTGAGGCCCTTGGG Reverse Primer: ATGCCCTGGGCAGTTACAAC	41 42	16p11.2-12.1
22.	Regenerating islet-derived-1 alpha (pancreatic stone protein, pancreatic thread protein) (REG1A)	WI 9197	G07172	Forward Primer: CATCTCTCCAACTCAACTCAACC Reverse Primer: TTTAGGGTTCCAAAGACTGGG	43 44	2p12
23.	Interleukin1, beta (IL1B)	WI 7848	G05863	Forward Primer: TTCTGAAAAATATAACCAGCCATTG Reverse Primer: ACCATTTCACATTATTGAAAGC	45 46	9q31
24.	Insulin like growth factor binding protein 5 (IGFBP5)	SHGC 11498	G14572	Forward Primer: GAATTAAGTGAAGGCTGAAACG Reverse Primer: CATGTGCATATTTCATTCCCC	47 48	2q33-q36
25.	Insulin receptor substrate-1 (human skeletal muscle)	WI 9260	G07206	Forward Primer: GTGACACCCAGAAATAATGAGTCTGC Reverse Primer: AACCCATTCTCTCATGACACG	49 50	2q36
26.	Alkaline phosphatase, placental (Regan isozyme) (ALPP)	WI 8964	G07054	Forward Primer: AGTCATGGCAGCACCCTGAG Reverse Primer: ACCACAGCAGCCTCCTTG	51 52	2q37

27.	Human DNA dependent protein kinase catalytic subunit (DNA-PKCs)	SHGC 35517	G29848	Forward Primer: CTTGGTTGGCAGCATTC	53	8q11
				Reverse Primer: TGAAGTAACTGACATTAAGCCTGG	54	
28.	Lipoprotein lipase (LPL)	WT 9031	G07089	Forward Primer: TTACAAACAATACCCAGTGTGG	55	8p22
				Reverse Primer: CTTTTAGTGCTTGAGACTGTCTCC	56	
29.	Human MAP kinase phosphatase (MKP-2)	SHGC 35388	G28599	Forward Primer: GCAGAAAGTTGGGACTGAGC	57	8p12-p11
				Reverse Primer: TGAAGTAACTGACATTAAGCCTGG	58	
30.	Protein Kinase C, theta type	SHGC 9690	G11293	Forward Primer: CCCCATGTGACTTATCTGTAGC	59	10p15
				Reverse Primer: AGTCTGAGACGCTGTACTCCG	60	
31.	Insulin degrading enzyme	UTR 9770	G13262	Forward Primer: ATTCCTGAGTCTTCCAGAGCC	61	10q23-q25
				Reverse Primer: ATGACATTTGACAAATTTTGTGG	62	
32.	Phosphofructokinase, muscle (PFKM)	WT 7025	G06359	Forward Primer: TCCACATCTTCTCAGTGTTTAGC	63	12q13.3
				Reverse Primer: TCACAGTGACCAAGTTGGCAT	64	
33.	ATP synthase lipid binding protein P2 precursor	SHGC 10801	G13455	Forward Primer: CCCGTGTGTTCCCTTTCTA	65	12q13.13
				Reverse Primer: AGGCACCTCAGCCAACTGTG	66	
34.	Mevalonate kinase	A001U02	G19646	Forward Primer: GTACAGATCGGAAGAAAGT	67	12
				Reverse Primer: CCTTCCCTCTACCTAAC	68	